```
AF047020
                  standard; RNA; HUM; 2041 BP.
 ID
 XX
      AF047020;
 AC
 XX
 sv
      AF047020.1
XX
DT
      20-FEB-1998 (Rel. 54, Created)
\mathbf{DT}
      01-FEB-1999 (Rel. 58, Last updated, Version 2)
\mathbf{x}\mathbf{x}
DE
      Homo sapiens alpha-methylacyl-CoA racemase mRNA, complete cds.
\mathbf{x}\mathbf{x}
KW
\mathbf{x}\mathbf{x}
os
      Homo sapiens (human)
      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia;
oc
oc
      Eutheria; Primates; Catarrhini; Hominidae; Homo.
XX
RN
      [1]
      1-2041
RP
RA
      Albers C., Schmitz W., Conzelmann E.;
RT
      "Human alpha-methylacyl-CoA racemase cDNA sequence";
RL
      Unpublished.
XX
RN
      [2]
RP
      1-2041
RA
      Albers C., Schmitz W., Conzelmann E.;
ידיא
RT.
      Submitted (06-FEB-1998) to the EMBL/GenBank/DDBJ databases.
RL
      Biozentrum, University of Wuerzburg, Am Hubland, Wuerzburg D-97074, Germany
XX
RN
      131
RC
      Sequence update by submitter
RP
      1-2041
RA
      Albers C., Schmitz W., Conzelmann E.;
RT
      Submitted (29-JAN-1999) to the EMBL/GenBank/DDBJ databases.
RL
RL
      Biozentrum, University of Wuerzburg, Am Hubland, Wuerzburg D-97074, Germany
\mathbf{x}\mathbf{x}
DR
      SWISS-PROT; Q9UHK6; AMAC_HUMAN.
XX
CC
     On Jan 29, 1999 this sequence version replaced gi:2896147.
\mathbf{x}\mathbf{x}
FH
     Key
                       Location/Qualifiers
FH
FT
     source
                       1..2041
FT
                       /db_xref="taxon:9606"
FT
                       /organism="Homo sapiens"
FT
     CDS
                       89..1237
FT
                       /codon_start=1
\mathbf{FT}
                       /db_xref="SWISS-PROT:Q9UHK6"
FT
                       /note="required for bile acid synthesis and for catabolism
FT
                       of branched-chain fatty acids"
FT
                       /EC_number="5.1.99.4"
FT
                       /function="racemization of 2-methyl-branched fatty acid CoA
FT
                       esters"
FT
                       /product="alpha-methylacyl-CoA racemase"
FT
                       /protein_id="AAD10205.1"
FT
                       translation="MALQGISVMELSGLAPGPFCAMVLADFGARVVRVDRPGSRYDVSR/
FT
                       LGRGKRSLVLDLKQPRGAAVLRRLCKRSDVLLEPFRRGVMEKLQLGPEILORENPRLIY
FT
                       ARLSGFGQSGSFCRLAGHDINYLALSGVLSKIGRSGENPYAPLNLLADFAGGGLMCALG
FT
                       I IMALFDRTRTDKGQVIDADMVEGTAYLSSFLWKTQKSSLWEAPRGONMLDGGAPFYTT
FT
                       YRTADGEFMAVGAIEPQFYELLIKGLGLKSDELPSQMSTDDWPEMKKKFADVFAKKTKA
```

## EWCQIFDGTDACVTPVLTFEEVVHHDHNKERGSFITSEEQDVSPRPAPLLLNTPAIPSF KRDPFIGEHTEEILEEFGFSREEIYQLNSDKIIESNKVKASL"

XX SQ

Sequence 2041 BP; 525 A; 441 C; 527 G; 548 T; 0 other; ggcgccggga ttgggagggc ttcttgcagg ctgctgggct ggggctaagg gctgctcagt 60 ttccttcagc ggggcactgg gaagcgccat ggcactgcag ggcatctcgg tcatggagct 120 gteeggeetg geeeegggee egttetgtge tatggteetg getgaetteg gggegegtgt 180 ggtacgcgtg gaccggcccg gctcccgcta cgacgtgagc cgcttgggcc ggggcaagcg 240 ctcgctagtg ctggacctga agcagccgcg gggagccgcc gtgctgcggc gtctgtgcaa 300 gcggtcggat gtgctgctgg agcccttccg ccgcggtgtc atggagaaac tccagctggg 360 cccagagatt ctgcagcggg aaaatccaag gcttatttat gccaggctga gtggatttgg 420 ccagtcagga agcttctgcc ggttagctgg ccacgatatc aactatttgg ctttgtcagg 480 tgttctctca aaaattggca gaagtggtga gaatccgtat gccccgctga atctcctggc 540 tgactttgct ggtggtggcc ttatgtgtgc actgggcatt ataatggctc tttttgaccg 600 cacacgcact gacaagggtc aggtcattga tgcagatatg gtggaaggaa cagcatattt 660 aagttotttt otgtggaaaa otoagaaato gagtotgtgg gaagcacoto gaggacagaa 720 catgttggat ggtggagcac ctttctatac gacttacagg acagcagatg gggaattcat 780 ggctgttgga gcaatagaac cccagttcta cgagctgctg atcaaaggac ttggactaaa 840 gtctgatgaa cttccctctc agatgagcac ggatgattgg ccagaaatga agaagaagtt 900 tgcagatgta tttgcaaaga agacgaaggc agagtggtgt caaatctttg acggcacaga 960 tgcctgtgtg actccggttc tgacttttga ggaggttgtt catcatgatc acaacaagga 1020 acggggctcg tttatcacca gtgaggagca ggacgtgagc ccccgccctg cacctctgct 1080 gttaaacacc ccagccatcc cttctttcaa aagggatcct ttcataggag aacacactga 1140 ggagatactt gaagaatttg gattcagccg cgaagagatt tatcagctta actcagataa 1200 aatcattgaa agtaataagg taaaagctag tototaactt ccaggcccac ggotcaagtg 1260 aatttgaata ctgcatttac agtgtagagt aacacataac attgtatgca tggaaacatg 1320 gaggaacagt attacagtgt cctaccactc taatcaagaa aagaattaca gactctgatt 1380 ctacagtgat gattgaattc taaaaatggt tatcattagg gcttttgatt tataaaactt 1440 tgggtactta tactaaatta tggtagttat tctgccttcc agtttgcttg atatatttgt 1500 tgatattaag attcttgact tatattttga atgggttcta gtgaaaaagg aatgatatat 1560 1620 tcttgaagac atcgatatac atttatttac actcttgatt ctacaatgta gaaaatgagg aaatgccaca aattgtatgg tgataaaagt cacgtgaaac agagtgattg gttgcatcca 1680 ggccttttgt cttggtgttc atgatctccc tctaagcaca ttccaaactt tagcaacagt 1740 tatcacactt tgtaatttgc aaagaaaagt ttcacctgta ttgaatcaga atgccttcaa 1800 ctgaaaaaaa catatccaaa ataatgagga aatgtgttgg ctcactacgt agagtccaga 1860 1920 gggacagtca gttttagggt tgcctgtatc cagtaactcg gggcctgttt ccccgtgggt ctctgggctg tcagctttcc tttctccatg tgtttgattt ctcctcaggc tggtagcaag 1980 2040 ttctggatct tatacccaac acacagcaac atccagaaat aaagatctca ggacccccca 2041

//